## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/019186

			00170100
A. CLASSIFIC	CATION OF SUBJECT MATTER CO7D301/28, 303/27, C08G59/04	1, 59/50, C08J5/24//C08	L63/00
According to Int	ernational Patent Classification (IPC) or to both nationa	l classification and IPC	
B. FIELDS SE			
Minimum docum Int.Cl	nentation searched (classification system followed by cl CO7D301/00-301/28, 303/00-303 08J5/00-5/24, CO8L63/00	assification symbols) 3/27, C08G59/00-59/50,	
Documentation s Jitsuyo Kokai Ji	searched other than minimum documentation to the exte Shinan Koho 1922—1996 Ji itsuyo Shinan Koho 1971—2005 To	nt that such documents are included in the tsuyo Shinan Toroku Koho roku Jitsuyo Shinan Koho	e fields searched 1996-2005 1994-2005
Electronic data b	pase consulted during the international search (name of a (STN), REGISTRY (STN), WPI (DIALC	data base and, where practicable, search to OG)	erms used)
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
Х	JP 7-508797 A (Europeaische		1-3,5,7
Y	Wirtschaftsgemeinschaft), 28 September, 1995 (28.09.95) Full text	•	4,6,8
	& WO 95/07308 A1 & LU	88405 A 5569727 A	
Y	JP 8-277247 A (Merck Patent 22 October, 1996 (22.10.96), Claims; examples & GB 2299333 A & US	GmbH.), 5750051 A	1-8
Y	JP 9-118673 A (Cornell Resea Inc.), 06 May, 1997 (06.05.97), Full text & US 5811504 A	rch Fo Undation,	1-8
× Further do	cuments are listed in the continuation of Box C.	See patent family annex.	
"A" document do	gories of cited documents: efining the general state of the art which is not considered icular relevance	"T" later document published after the inte date and not in conflict with the applic the principle or theory underlying the i	ation but cited to understand nvention
"E" earlier application or patent but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  "&" document member of the same patent family	
Name and mailin	g address of the ISA/ se Patent Office	Authorized officer	
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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
Y	JP 7-258638 A (Merck Patent GmbH.), 09 October, 1995 (09.10.95), Full text & DE 19504224 A1 & US 5560864 A	1-8
Y	WATSON, M.J. et al., A phenomenological approach to the inversion of the helical twist sense in the chiral nematic phase.J.Mater.Chem., 1998, 8(9), pages 1963 to 1969, particularly, Introduction, Experimental, Conclusions	1-8
Y	JP 7-15620 A (Mitsubishi Electric Corp.), 20 June, 1995 (20.06.95), Full text (Family: none)	5-8
Y	JP 7-316526 A (Gould Electronics Inc.), 05 December, 1995 (05.12.95), Full text & EP 676435 A1 & US 5525433 A & US 5629098 A & CN 1115329 A	5-8
P,X	JP 2005-29788 A (Sumitomo Chemical Co., Ltd.), 03 February, 2005 (03.02.05), 6 WO 2004/113327 Al	1-8

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## Concerning claims 1-8

As to the compounds represented by the general formula (1) set forth in claim 1, it is disclosed that  $Q^1$  and  $Q^2$  are each alkylene of 1 to 9 carbon atoms and oxygen or substituted amino may be inserted between methylene groups constituting the alkylene.

Owing to this disclosure, however,  $Q^1$  and  $Q^2$  include remarkably many groups, so that a group of compounds represented by the general formula (1) does not have such a common chemical structure that a person skilled in the art can grasp the group of compounds as one organized inventive concept. Thus, the group of compounds is unclear. Further, only compounds wherein  $Q^1$  and  $Q^2$  are each methylene are specifically produced in the description. Such being the case, it can not be said that the description and the claim disclose the inventions of these claims in a manner sufficiently clear and complete for the inventions to be carried out by a person skilled in the art. Further, the inventions of the claims are unclear, so that it cannot be said that the inventions are fully supported by the description (PCT Articles 5 and 6).

Since the present invention is thus inadequately disclosed, in this international search report, prior art search has been made only in the rational scope judged form the disclosure of the description.